

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,046,344 B2  
APPLICATION NO. : 10/759278  
DATED : May 16, 2006  
INVENTOR(S) : Toshio Yamamoto et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please change column 2, line 17, "PR" to --  $P_R$  --,

Column 3, line 2, "Po" to --  $P_o$  --,

Column 3, line 15, "to" to --  $t_o$  --,

Column 3, line 40, "25°C." to -- 25°C. --,

Column 3, line 41, "25°C." to -- 25°C. --,

Column 3, line 44, " $7.0 \times 10^{-5}/^{\circ}\text{C}.$ " to --  $7.0 \times 10^{-5}/^{\circ}\text{C}.$  --,

Column 3, line 46, "25°C." to -- 25°C. --,

Column 3, line 54, " $b_o \times \Delta t (\tau_L - \tau_C) \approx 0.074\text{mm}$ " to -- " $b_o \times \Delta t (\tau_L - \tau_C) \approx 0.0074\text{mm}$  --,

Column 5, line 52, "bosses)" to -- bosses). --,

Column 7, line 14, "4(c)." to -- 4(c). --,

Column 9, line 38, "25°C." to -- 25°C. --,

Column 9, line 49, "25°C." to -- 25°C. --,

Column 9, line 50, "25°C." to -- 25°C. --,

Column 9, line 53, " $4.7 \times 10^{-6}/^{\circ}\text{C}.$ " to --  $4.7 \times 10^{-6}/^{\circ}\text{C}.$  --,

Column 9, line 55, " $2.5 \times 10^{-6}/^{\circ}\text{C}.$ " to --  $2.5 \times 10^{-6}/^{\circ}\text{C}.$  --,

Column 9, line 62, " $b_o \times \Delta t (\tau_L - \tau_C) \approx 0.000242\text{mm}$ "  
to --  $b_o \times \Delta t (\tau_L - \tau_C) \approx 0.000242\text{mm}$  --,

Column 9, line 66, " $d' = b_o \times f \sqrt{\{X_L + X_R - b_o \times \Delta t (\tau_L - \tau_C)\}} \approx 1007.38\text{mm}$ "  
to --  $d' = b_o \times f \sqrt{\{X_L + X_R - b_o \times \Delta t (\tau_L - \tau_C)\}} \approx 1007.38\text{mm}$  --,

Column 10, line 31. " $M_{\Delta 20} = fob/M_{\Delta 20} = 25 \times (1007 - 25) \approx 0.02546$ "  
to --  $M_{\Delta 20} = fob/M_{\Delta 20} = 25/(1007 - 25) \approx 0.02546$  --,

Column 11, line 13, "-20°C." to -- -20°C. --,

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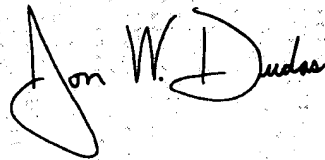
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, line 16, there is not line feed between "long hole 104." and "The reference bosses 116...", and

Column 17, line 35, " $S \times \tau_A \times \Delta t$ " to --  $K_s \times \tau_A \times \Delta t$  --.

Signed and Sealed this

Tenth Day of October, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas", is written over a faint, circular embossed seal of the United States Patent and Trademark Office.

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*